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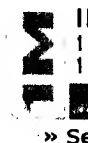| Taguchi A. | Taguchi D. | Taguchi E. | Taguchi G. | Tag |
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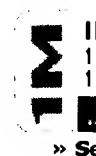OCEANS ,Volume: 12 , Sep 1980
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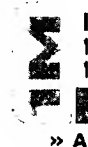Understanding of Earth Environment'., International , 18-21 Aug. 1993
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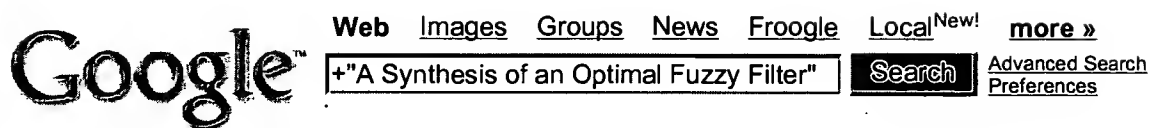
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9. Nobunori Izawa, **Akira Taguchi**, Yutaka Murata: "A Data-Dependent Fuzzy Center Weighted Median Filter,"
Electronics And Communications in Japan, Part 3, Vol.81, No.8, pp.27-40, August 1998.

10. **Akira Taguchi**, Mitsuji Muneyasu, Takao Hinamoto: "Median and Neural Network Hybrid (MNNH) Filters,"
Electronics And Communications in Japan, Part 3, Vol.81, No.6, pp.52-60, June 1998.

11. **Akira Taguchi**, Mitsuhiko Meguro: "Data-Dependent Weighted Median Filtering Based on Fuzzy Rules,"
Electronics And Communications in Japan, Part 3, Vol.81, No.4, pp.21-32, April 1998.

12. Mitsuhiko Meguro, **Akira Taguchi**, Yutaka Murata: "An Adaptive Order Statistics Filters Based on Fuzzy Rules for Image Processing,"
Electronics And Communications in Japan, Part 3, Vol.80, No.9, pp.70-80, September 1997.

13. **Akira Taguchi**: "An Adaptive α-Trimmed Mean Filter with Excellent Detail-Preservation and Evaluation of Its Performance,"
Electronics And Communications in Japan, Part 3, Vol.78, No.10, pp.46-56, October 1995.

14. Hironori Takashima, **Akira Taguchi**, Yutaka Murata: "A Synthesis of an Optimal Fuzzy Filter Based on Local Statistics,"
Electronics And Communications in Japan, Part 3, Vol.78, No.8, pp.10-21, August 1995.

15. Hironori Takashima, **Akira Taguchi**, Yutaka Murata: "Edge-Preserving Smoothing Using the Fuzzy Control Technique,"
Electronics And Communications in Japan, Part 3, Vol.78, No.1, pp.32-43, January 1995.

16. **Akira Taguchi**, Yumiko Miyamura, Nozumu Hamada: "A Proposal of Mean Filter with Adaptive Window Length,"
Electronics And Communications in Japan, Part 3, Vol.73, No.7, pp.78-86, July 1990.

17. Tsutomu Watanabe, **Akira Taguchi**, Nozumu Hamada: "Modified Two-Dimensional AR Lattice Filter and Its Application to Spectral Analysis,"
Electronics And Communications in Japan, Part 3, Vol.73, No.3, pp.28-37, March 1990.

18. **Akira Taguchi**, Tomoko Nakahashi, Nozomu Hamada: "A 2-D Digital Filter Design Technique Using Separable Approximation of Phase and Magnitude Responses by Denominator and Numerator,"
Electronics And Communications in Japan, Part 3, Vol.72, No.5, pp.18-28, May 1989.

19. **Akira Taguchi**, Nozumu Hamada : "Spatial Domain Design of Three Terms Separable Denominator Two- Dimensional Digital Filter,"
IEEE Trans. on Circuits and System, Vol. CAS-35, No.8, pp.1027-1032, August 1988.

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1997 IEEE Workshop on Nonlinear Signal and Image Processing

September 8-10, 1997
Grand Hotel on Mackinac Island, Michigan USA.

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PROGRAM

Session MA1 -- Morphology

- 8:30 to 9:45, Break, 10:15 to 11:05
- Room: Prosecutor's Heritage Hall
- Session Chair: C. Kotropoulos, Aristotle University of Thessaloniki, Greece

1. 8:30-8:55, "Shape Extraction of Medical Objects via the Evolution of Gray-Scale Morphological Sequences," by Andrea Kutics.
2. 8:55-9:20, "Face Verification **Based** on Morphological Dynamic Link Architecture," by Constantine Kotropoulos and Ioannis Pitas.
3. 9:20-9:45, "Morphological Size Densities: Application to **Optimal** Texture Classification and Noise Filtering," by K. Sivakumar and J. Goutsias.
4. 10:15-10:40, "Nonlinear Cloning Template for Ultimate Erosion," by Lionel Merlat, Nicolas Silvestre, and Jean Merckle.
5. 10:40-11:05, "An Efficient Algorithm for 3D Binary Morphological Transformations with 3D Structuring Elements of Arbitrary Size and Shape," by Nikos Nikopoulos and Ioannis Pitas

Session MA2 -- Processing of Video Signals

- 8:30 to 9:45, Break, 10:15 to 11:30
- Room: The Capitol Club
- Session Chair: Ed Delp, Purdue University, USA

1. 8:30-8:55, "Application of Non-linear Image Processing: Digital Video Restoration," by Neal R. Harvey and Stephen Marshall.
2. 8:55-9:20, "An Adaptive Near Information Preserving Image Encoder," by Saif S. Zahir and Morton Kanefsky.
3. 9:20-9:45, "Cut Detection via Compressed Domain Edge Extraction," by Bo Shen, Dongge Li, and Ishwar K. Sethi.
4. 10:15-10:40, "Nonlinear Image Processing for Automatic Inspection of Railroad Lines," by I. Khandogin, A. Kummert, and D. Maiwald.
5. 10:40-11:05, "Improvement of the DC-Shift Noise Reducer with Statistical Noise Separation Method and Adaptive Area Filtering Method Using a **Local** and Global Characteristics of Video Sequence," by Yoshinori Izumi, Masahide Naemura, Atsushi Fukuda, Yoshinobu Mizutani, and Yuichi Ninomiya.
6. 11:05-11:30, "Removing Compression Block Artifacts with Orthogonal Edge Basis," by Daben Liu, Sos Agaian, and Joseph P. Noonan.

Session MA3 -- Order-Statistic-Based Image Processing

- 8:30 to 9:45, Break, 10:15 to 11:30
- Room: The Quarters of Chief Mackinac
- Session Chair: Pao-Ta Yu, National Chung Cheng University, Taiwan

1. 8:30-8:55, "Impulsive Noise Removing with Vector Median Filters: A Deterministic Approach," by Laurent Lucat and Pierre Siohan.
2. 8:55-9:20, "Nonlinear Filters and Rapidly Increasing/Decreasing Signals Corrupted with Noise," by K. J. Willner, P. Kuosmanen, V. V. Lukin, and A. B. Pogrebniak.
3. 9:20-9:45, "Non-linear Filters for White Spot Compensation," by Shivaling S. Mahant-Shetti and David A. Martin.
4. 10:15-10:40, "Rank Ordered Neural Network Filters for Image Restoration," by Hung-Hsu Tsai, Shih-Che Lo, and Pao-Ta Yu.
5. 10:40-11:05, "Non-linear Interpolation of Missing Image Data Using Min-Max Functions," by Steven Armstrong, Anil C. Kokaram, and Peter J. W. Rayner.
6. 11:05-11:30, "Area/Power Efficient Implementation of a Wavelet Domain Robust Image Denoising Algorithm," by Vijay Sundararajan, Michael E. Zervakis, and Keshab K. Parhi.

Monday Afternoon Plenary Session: 1:30-2:20

- "MPEG-4 and Beyond -- Trends and Perspectives for Image and Video Coding," by Thomas Sikora.
- Presented in the Grand Hotel's Theatre

Session MP1 -- Order-Statistic-Based Image Processing

- 2:30 to 3:45, Break, 4:15 to 5:30
- Room: Museum Room B
- Session Chair: Olli Yli-Harja, Helsinki University of Technology, Finland

1. 2:30-2:55, "Alpha-Trimmed Mean Radial Basis Functions and Their Application in Object Modelling," by Adrian G. Bors and Ioannis Pitas.
2. 2:55-3:20, "Data-Depentend Linear Combination of Weighted Order **Statistics (DD-LWOS)** Filtering **Based on Local Statistics**," by Tadasuke Inoue and Akira Taguchi.
3. 3:20-3:45, "Statistical Characterisation of Stack Filters," by Olli Yli-Harja.
4. 4:15-4:40, "**Fuzzy** Weighted Median Filters," by Akira Taguchi and Susumu Takaku.
5. 4:40-5:05, "**Fuzzy** Vector Median Definition **Based** on a **Fuzzy** Vector Distance," by Vassilios Chatzis and Ioannis Pitas.
6. 5:05-5:30, "An OS Method for Decomposition of Cyclic Component Signals," by Aleksej Makarov.

Session MP2 -- Design and Implementation of Morphological and Order Statistic Filters

- 2:30 to 3:45, Break, 4:15 to 5:30
- Room: Prosecutor's Heritage Hall
- Session Chair: Jisang Yoo, Kwangwoon University, Korea

1. 2:30-2:55, "A Fast Algorithm for Computing Morphological Image Processing Primitives," by D.M.P. Hagyard, M. Razaz, and P. Atkin.
2. 2:55-3:20, "Implementation of Parallel Adaptive Stack **Filter** Using PVM," by Youngrock Yoon, Hyeran Byun, Yillbyung Lee, and Jisang Yoo.
3. 3:20-3:45, "A Histogram Method for Fast Greyscale Morphology Operations," by D.M.P. Hagyard, M. Razaz, and P. Atkin.
4. 4:15-4:40, "Structuring Element Decomposition by Tree Searching," by M. Razaz and D.M.P. Hagyard.
5. 4:40-5:05, "**Synthesis** of A Parallel, **Optimal** Stack **Filter** Training Algorithm," by Kelvin L. Fong, George B. Adams III, Edward J. Coyle and Jisang Yoo.
6. 5:05-5:30, "Decomposition of Structuring Elements for **Optimal** Implementation of Morphological Operations," by Hochong Park and Roland T. Chin.

Session MP3 -- Low-Level Image Processing

- 2:30 to 3:45, Break, 4:15 to 5:30
- Room: Headquarters of the Capitol Club
- Session Chair: Aggelos Katsaggelos, Northwestern University, USA

1. 2:30-2:55, "Iterative Regularized Image Restoration Using Local Constraints," by Min-Cheol Hong, Tania Stathaki, and Aggelos K. Katsaggelos.
2. 2:55-3:20, "Digital Color Restoration of Old Paintings," by Michalis Pappas and Ioannis Pitas.
3. 3:20-3:45, "Digital Watermarking Through Filtering," by Pauli Kuosmanen, Jaakko Astola, Kari Daviosson, and Katriina Halonen.
4. 4:15-4:40, "Viewing Effect Algorithm for Image Expansion," by Joseph Y. Pai and Lori Lucke.
5. 4:40-5:05, "Bitmap Resolution Synthesis," by Jennifer Guani Dy and Jan P. Allebach.
6. 5:05-5:30, "Enlargement of Digital Images on Laplacian Pyramid by Using Neural Networks," by Daisuke Sekiwa and Akira Taguchi.

Session TA1 -- Design and Applications of Morphological Filters Invited Session, organized by Steve Marshall, University of Strathclyde

- 8:30 to 8:45, Break, 9:15 to 11:30
- Room: Prosecutor's Heritage Hall
- Session Chair: Steve Marshall, University of Strathclyde, England

1. 8:30-8:55, "Component Trees for Image Filtering and Segmentation," by Ronald Jones.
2. 8:55-9:20, "Memory Efficient Propagation-Based Algorithms for Influence Zone Transmission," by C. I. Cotsaces and I. Pitas.
3. 9:20-9:45, "The Use of Nonlinear Filtering In Automatic Video Title Capture," by Sharmila Kannangara, Eduardo Asbun, Robert X. Browning, and Edward J. Delp.
4. 10:15-10:40, "Sample Selection Probabilities and Optimal Soft Morphological Filtering," by Pertti Koivisto and Pauli Kuosmanen.
5. 10:40-11:05, "Robust Image Contour Detection by Watershed Transformation," by Xiao Pei and Moncef Gabbouj.
6. 11:05-11:30, "Application of Advanced Morphological Filters into Image Segmentation," by Marcin Iwanoski, Slawomir Skoneczny, and Jaroslaw Szostakowski.

Session TA2 -- Wavelets

- 8:30 to 8:45, Break, 9:15 to 11:05
- Room: Headquarters of the Capitol Club
- Session Chair: Xinhua Zhang, University of Missouri, USA

1. 8:30-8:55, "Time-Scale Analysis of Deterministic Signals Corrupted by Zero-Mean Multiplicative Noise," by M. Chabert, J.Y. Tourneret and F. Castani.
2. 8:55-9:20, "Selective Wavelet Coefficient Soft-Thresholding Scheme for Speckle Noise Reduction in SAR Images," by Y. Li and C. Moloney.
3. 9:20-9:45, "Wavelet Packet Transform and Fuzzy Logic Approach for Handwritten Character Recognition," by Sreela Sasi, Loren Schwiebert, and Jatinder Bedi.
4. 10:15-10:40, "A Novel Data Representation Strategy for Wavelet Image Compression," by Bing-Bing Chai, Jozsef Vass, and Xinhua Zhuang.
5. 10:40-11:05, "Nonlinear System Identification by Wavelet Multiresolution Analysis," by M.

Pawlak and Z. Hasiewicz.
6. 3:20-3:45, "Webcasting and Web Network Traffic Measurements and Modeling with Alpha-Stable Self-Similar Processes," by Anestis Karasaridis and Dimitrios Hatzinakos.

Session TA3 -- Adaptive Filters

- 8:30 to 8:45, Break, 9:15 to 11:05
- Room: Quarters of Chief Mackinac
- Session Chair: Ken Sauer, Univerity of Notre Dame, USA

1. 8:30-8:55, "A Simulated Annealing Genetic Algorithm for Blind Deconvolution of Nonlinearly Degraded Images," by Kaaren May, Tania Stathaki, and Anthony Constantinides.
2. 8:55-9:20, "Nonlinear Back Projection for Tomographic Image Reconstruction," by Ken Sauer and Charles A. Bouman.
3. 9:20-9:45, "Adaptive Multichannel L-filters with Structural Constraints," by Constantine Kotropoulos, Maria Gabran, and Ioannis Pitas.
4. 10:15-10:40, "Blind Signal Separation and Recovery in Dynamic Environments," by Fathi M. Salam and Gamze Erten.
5. 10:40-11:05, "Fast Training of the Adaptive Neural Stack **Filter**," by Mounir Sayadi, Farhat Fnaiech, and Daniel Bastard.

Session TA4 -- Image Structure

- 8:30 to 8:45, Break, 9:15 to 11:30
- Room: Museum Room B
- Session Chair: Alfons Salden, University Hospital Utrecht, The Netherlands

1. 8:30-8:55, "Modern Geometry of Image Formation," by Alfons H. Salden.
2. 8:55-9:20, "Use of Predictive Coding Distribution for Edge Detection," by Bogdan Cramariuc, Ioan Tabus, and Moncef Gabbouj.
3. 9:20-9:45, "An Edge-Enhanced Modified Lee **Filter** for the Smoothing of SAR Image Speckle Noise," by C. Ju and C. Moloney.
4. 10:15-10:40, "A Robust Nonlinear Segment-Edge Finder," by Mark Mertens, Hichem Sahli, and Jan Cornelis.
5. 10:40-11:05, "A Nonlinear Circuit for Coupled Image Restoration and Edge Detection," by Marco Storace, Mauro Parodi, and Carlo Regazzoni.
6. 11:05-11:30, "Generalized Edge-Preserving Smoothing for Signal Analysis," by Vadim Mottl, Alex Kostin, and Ilya Muchnik.

Luncheon Meeting of the NSIP Board and Organizers of NSIP Workshops

- 12:00-1:20, Pontiac Room
- Attendees: Giovanni Sicuranza (Chair), Enis Cetin (Chair of NSIP'99), Moncef Gabbouj, Constantine Kotropolous (for I. Pitas), Neal Gallagher (for G. Arce), Pao-Ta Yu, Steve Marshall, Akira Taguchi, and the organizers of NSIP'97 - Ed Coyle, George Adams, Lori Lucke, Ed Delp.

Tuesday Afternoon Plenary Session, 1:30-2:20, ROOM

- "Nonlinear Partial Differential Equations for Processing Vector-Valued Images," by Guillermo Sapiro
- Presented in the Theatre

Session TP1 -- Transform Methods for Nonlinear Signal Processing
Invited Session, organized by Jaakko Astola and Karen Egiazarian, Tampere University of Technology.

- 2:30 to 3:45, Break, 4:15 to 5:30
- Room: Headquarters of the Capitol Club
- Session Chair: Karen Egiazarian, Tampere Univ. of Technology, Finland

1. 2:30-3:20, "Parallels Between Granulometric and Fourier Transforms," by Edward R. Dougherty.
2. 3:20-3:45, "Nonlinear Adaptive Image Processing in Transform Domain," by L. Yaroslavsky.
3. 4:15-4:40, "Wavelet Transforms for Nonlinear Signal Processing," by Robert Nowak and Richard Baraniuk.
4. 4:40-5:05, "Binary Polynomial Transforms for Nonlinear Signal Processing," by Jaakko Astola, Karen Egiazarian, Rusen Oktem, and Sos Agaian.
5. 5:05-5:30, "Combining the Discrete Wavelet Transfroms and Nearest Neighbour Filters for Image Restoration," by Karen O. Egiazarian, Jaakko T. Astola, Samvel M. Atourian, and David Z. Gevorkian.

Session TP2 -- Nonlinear Methods for Inverse Problems
Invited Session, organized by C.A. Bouman, Purdue Univeristy and K. Sauer, Notre Dame.

- 2:30 to 3:45, Break, 4:15 to 5:55
- Room: Prosecutor's Heritage Hall
- Session Chair: Charlie Bouman, Purdue University, USA

1. 2:30-2:55, "Nonlinear Reconstruction Problems Arising in Viral Structure Determination from X-ray and Electron Microscopy Data," by Wen Gao, Yibin Zheng, and Peter C. Doerschuk.

2. 2:55-3:20, "On Correcting for Seismic Travel Time Anomalies Caused by Near-Surface Rock Layers," by Saad J. Saleh and Gary L. Syverson.
3. 3:20-3:45, "Nonlinear Models and Methods for Space-Object Imaging through Atmospheric Turbulence," by Timothy J. Schulz.
4. 4:15-4:40, "Image Domain Scattering Center Models for Synthetic Aperture Radar," by Michael J. Gerry, Lee C. Potter, Randolph L. Moses, and Michael A. Koets.
5. 4:40-5:05, "Inversion **Based** on Complex Computational Simulations," by Kenneth M. Hanson, Gregory S. Cunningham, and Suhail S. Saquib.
6. 5:05-5:30, "A Bayesian Framework for Nonlinear Diffraction Tomography," by Herve Carfantan and Ali Mohammad-Djafari.
7. 5:30-5:55, "A Method for ECT Image Reconstruction with Uncertain MRI Side Information Using Asymptotic Analysis," by Alfred O. Hero III and Robinson Piramuthu.

Session TP3 -- Volterra Filters I

- 2:30 to 3:45, Break, 4:15 to 5:30
- Room: Quarters of Chief Mackinac
- Session Chair: Giovanni Sicuranza, University of Trieste, Italy

1. 2:30-2:55, "On the Exact Inverse and the pth Order Inverse of Certain Nonlinear Systems," by Alberto Carini, Giovanni L. Sicuranza, and V. John Mathews.
2. 2:55-3:20, "The Stability of Bilinear and Quadratic Filters," by Kelly K. Johnson and Irwin W. Sandberg.
3. 3:20-3:45, "A Design Method of a Nonlinear Inverse System by the Adaptive Volterra **Filter** -- The Application of the Summation Affine Projection Algorithm," by Yoshinobu Kajikawa and Yasuo Nomura.
4. 4:15-4:40, "Doubly-Finite Volterra-Serices Approximations," by Irwin W. Sandberg.
5. 4:40-5:05, "Baseband Volterra Filters for Implementing Carrier **Based** Nonlinearities," by Gil M. Raz and Barry D. Van Veen.
6. 5:05-5:30, "Identification of Time-Varying Nonlinear Channels using Polynomial Filters," by Mounir Ghogho and Souad Meddeb.

Session TP4 -- Image Processing with Order Statistic and Morphological Filters

- 2:30 to 3:45, Break, 4:15 to 5:30
- Room: Museum Room B
- Session Chair: Ed Coyle, Purdue University, USA

1. 2:30-2:55, "Conditional Morphology for Image Restoration," by C. S. Regazzoni, E. Stringa and C. Valpreda.
2. 2:55-3:20, "On the Design of Adaptive **Fuzzy** Regression Selection **Filter** with the Application of Image Restoration," by Pao-Ta Yu and Jia-Hong Wu.
3. 3:20-3:45, "Perceptually **Optimal** Restoration of Images with Stack Filters," by J. J. Huang and E. J. Coyle.

4. 4:15-4:40, "Nonlinear **Filter** Design **Based** on **Fuzzy** Inference Rules for Image Processing," by Rong-Chung Cheng and Pao-Ta Yu.
5. 4:40-5:05, "Image Sharpening by Morphological Filtering," by J.G.M. Schavemaker, M.J.T. Reinders, and R. van den Boomgaard.
6. 5:05-5:30, "A Comparative Study of the Complexity of Multivariate Medians," by Mauro Barni and Vito Cappellini.

NSIP'97 Banquet and Main Plenary Talk, 7:00-9:00, Terrace Room

- Gary Starkweather, "Electronic Imaging: Focusing in the Future"
- Abstract of Gary Starkweather's Presentation

Session WA1 -- Nonlinear Techniques in Image and Video Coding
Invited Session, organized by Moncef Gabbouj, Tampere University

- 8:30 to 9:45, Break, 10:15 to 11:30
- Room: Prosecutor's Heritage Hall
- Session Chair: Doina Petrescu, Tampere Univ. of Technology, Finland

1. 8:30-8:55, "Binary Nonlinear Subband Decomposition Structures for Textual Image Compression," by Omer N. Gerek and A. Enis Cetin
2. 8:55-9:20, "Nonlinear Techniques in Video: the MAVI Collaboration," by Luc Van Eycken.
3. 9:20-9:45, "Adaptive Boolean Filters for the Prediction Stage in Lossless Image Compression," by Doina Petrescu and Moncef Gabbouj.
4. 10:15-10:40, "Modeling and Compressing Generalized Images using Iterated Function Systems (IFS) with a Genetic Algorithm on a Neural-Net-IFS Scheme," by Olympia Lilly Bakalis and Bryan J. Travis
5. 10:40-11:05, "A Zero-Tree Like Codec Using Nonlinear Signal Decompositions," by J. L. Paredes, G. R. Arce, and N. C. Gallagher.
6. 11:05-11:30, "Error Concealment Techniques in MPEG-2," by Sofia Tsekeridou and Ioannis Pitas.

Session WA2 -- Speech Processing

- 8:30 to 9:45, Break, 10:15 to 11:55
- Room: Headquarters of the Capitol Club
- Session Chair: Peter Doerschuk, Purdue University, USA

1. 8:30-8:55, "Nonlinear Echo Cancellation for Hands-Free Speakerphones," by Bryan S. Nollett and Douglas L. Jones
2. 8:55-9:20, A Novel Variable Rate LPC Quantizer for High Performance Speech Coder," by Zijun Yang, Jozsef Vass, Yunxin Zhao, and Xinhua Zhuang.
3. 9:20-9:45, "Signal Processing Using Statistical Nonlinear Speech Production Models," by Wan-Chieh Pai and Peter C. Doerschuk.
4. 10:15-10:40, "A Generalization of the Teager Algorithm," by Michael Moore, Sanjit Mitra, and Reinhard Bernstein.
5. 10:40-11:05, "The Use of Recursive Median Filters for Establishing the Tonal Context in Music," by Ilya Shmulevich and Edward J. Coyle.
6. 11:05-11:30, "Colored L-1 Filters with Applications to Speech Pitch Detection," by Kenneth E. Barner.
7. 11:30-11:55, "Identifying Laryngeal Attractor Changes from Periodicity Diagrams," by Joel MacAuslan, Karen Chenausky, Jiahong Juda and Ivan Manev.

Session WA3 -- Nonlinear Estimation

- 8:30 to 9:45, Break, 10:15 to 11:30
- Room: Quarters of Chief Mackinac
- Session Chair: Charlie Boncelet, University of Delaware, USA

1. 8:30-8:55, "Revisiting the Estimation of the Mean using Order Statistics," by S. Zozor, E. Moisan, and P. O. Amblard.
2. 8:55-9:20, "Nonlinear-Model **Based** Signal Processing-Jumps and Coincidences," by A. van den Bos.
3. 9:20-9:45, "Robust Filtering," by R. K. Boel, M. R. James, and I. R. Petersen.
4. 10:15-10:40, "On the Use of the Huber Estimator in Nonlinear Image Processing," by Charles G. Boncelet Jr.
5. 10:40-11:05, "Robustness Aspects of the RASF," by Katriina Holonen, Pauli Kuosmanen, and Jaakko Astola.
6. 11:05-11:30, "Local Robustness of Nonlinear Regression M-Estimators," by Shawn P. Neugebauer and Lamine Mili.

Session WA4 -- Other Non-linear Techniques

- 8:30 to 9:45, Break, 10:15 to 11:30
- Room: Museum Room B
- Session Chair: John Spivy, Purdue University, USA

1. 8:30-8:55, "An Efficient Algorithm for Function Approximation with Hinging Hyperplanes," by D. Docampo and S. R. Baldomir.
2. 8:55-9:20, "Multiresolutional Decomposition **Based** Data Compression with B-Splines," by Rusen Oktem and Moncef Gabbouj.
3. 9:20-9:45, "On a Method for Investigating Long-Range Correlations," by Karin Vibe-Rheymer, Jens Timmer, and Jean-Marc Vesin.
4. 10:15-10:40, "Massively Parallel Processing Approach to Fractal Image Compression," by Paolo

Palazzari and Moreno Coli.

5. 10:40-11:05, "Joint Segmentation and AR Modeling of Quasistationary Signals using the EM Algorithm," by Ignacio Santamaria-Caballero, Carlos Pantaleon-Prieto, and Anibal R. Figueiras-Vidal.

6. 11:05-11:30, "Nonlinear Methods in Differentiators," by Sari Siren and Pauli Kuosmanen.

Session WP1 -- Applications

- 1:30 to 3:10
- Room: Museum Room B
- Session Chair: Jr-Jen Huang, Purdue University, USA

1. 1:30-1:55, "Three Dimensional Segmentation of Optical Microscope Images," by M. Razaz, J. A. Bangham, R. A. Lee, and R. W. Harvey.

2. 1:55-2:20, "Analysis of the ML-EM Algorithm for Nonlinear Reconstruction of Positron Emission Tomography Images," by F. Boschen, A. Kummert, and H. Herzog.

Session WP2 -- System Identification

- 1:30 to 2:45
- Room: Headquarters of the Capitol Club
- Session Chair: Ruck Thawonmas

1. 1:30-1:55, "On-line Blind Signal Extraction Methods Exploiting a-Priori Knowledge of the Previously Extracted Signals," by Andrzej Cichocki, Ruck Thawonmas, and Shun-ichi Amari.

2. 1:55-2:20, "Hardware Implementation of a Nonlinear Parameter Estimator for Process Monitoring," by Uwe Marschner and Wolf-Joachim Fischer.

3. 2:20-2:45, "Identification of a Nonlinear EEG Generating Model," by Ola Markusson and Torsten Bohlin.

Session WP3 -- Volterra II

- 1:30 to 2:45
- Room: Prosecutor's Heritage Hall
- Session Chair: Jr-Jen Huang, Purdue University, USA

1. 1:30-1:55, "An Elimination Method of the Nonlinear Distortion in Frequency Domain by the Volterra **Filter**," by Yasuo Nomura and Yoshinobu Kajikawa.

2. 1:55-2:20, "Volterra Transfer Models for Electron Wave Reconstruction," by Adriaan van den Bos.

Session WP4 -- Implementation of Median Filters

- 1:30 to 2:45
- Room: Quarters of Chief Mackinac
- Session Chair: Ed Coyle, Purdue University, USA

1. 1:30-1:55, "A Continuous-Time Analog Median **Filter**," by Alejandro Diaz-Sanchez, Jaime Ramirez-Angulo and Antonio Lopez.
2. 2:20-2:45, "VLSI Cellular Neural Network **Based** Median **Filter** for Real-Time Video Signal Processing," by Jacek Kowalski, Krzysztof Slot, and Tomasz Kacprzak.

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Vassilios Chatzis ... 4:40-5:05, "**Synthesis** of A Parallel, **Optimal** Stack **Filter ...**
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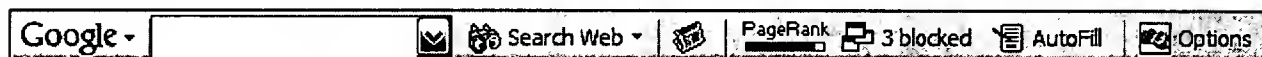
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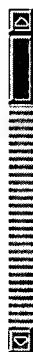- ## Using the ACM Digital Library

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Please review the Quick Tips below or for more information see the Search Tips.

Quick Tips

- Enter your search terms in lower case with a space between the terms.

      sales offices

  You can also enter a full question or concept in plain language.

      Where are the sales offices?

- Capitalize proper nouns to search for specific people, places, or products.

      John Colter, Netscape Navigator

- Enclose a phrase in double quotes to search for that exact phrase.

      "museum of natural history" "museum of modern art"

- Narrow your searches by using a **+** if a search term must appear on a page.

      museum +art

- Exclude pages by using a **-** if a search term must not appear on a page.

      museum -Paris

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

      museum +"natural history" dinosaur -Chicago

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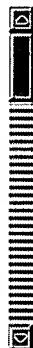
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